Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

SECRET

25X1

IMAGERY ANALYSIS [redacted] STAFF

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

STATUS OF NORTH VIETNAMESE RAILROADS

X1

DECLASS REVIEW by NIMA/DOD

REPORT NO. 37
CIA/PIR 75113

DATE APRIL 1967

GROUP 1
Excluded from automatic downgrading and declassification

SECRET

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

25X1

RECORD COPY	COPY NO.	PUB. DATE	LOCATION	MASTER	DATE RECEIVED	LOCATION
				STOCK LEVEL	MINIMUM 1	MAXIMUM 10

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

DISPOSITION INSTRUCTIONS

CUT TO COPIES	DATE	CUT TO COPIES	DATE	COPIES DESTROYED
0	7-73			
CUT TO COPIES	DATE	CUT TO COPIES	DATE	
CUT TO COPIES	DATE	MASTER	DATE	

DATE MO.	DAY	YR.	RECEIVED OR ISSUED	NUMBER OF COPIES REC'D	ISS'D	BAL
5	23	68	DIST UNIT	17		17
1	21	70	INV + Dest. 7		7	10
10	20	72	Dest 10 Copies			0

DATE MO.	DAY	YR.	RECEIVED OR ISSUED	NUMBER OF COPIES REC'D	ISS'D	BAL
W	K	G				

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

TITLE NPIC 16-22 Apr. 1967

505-476

25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
SECRET

25X1

PREFACE

This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Staff) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

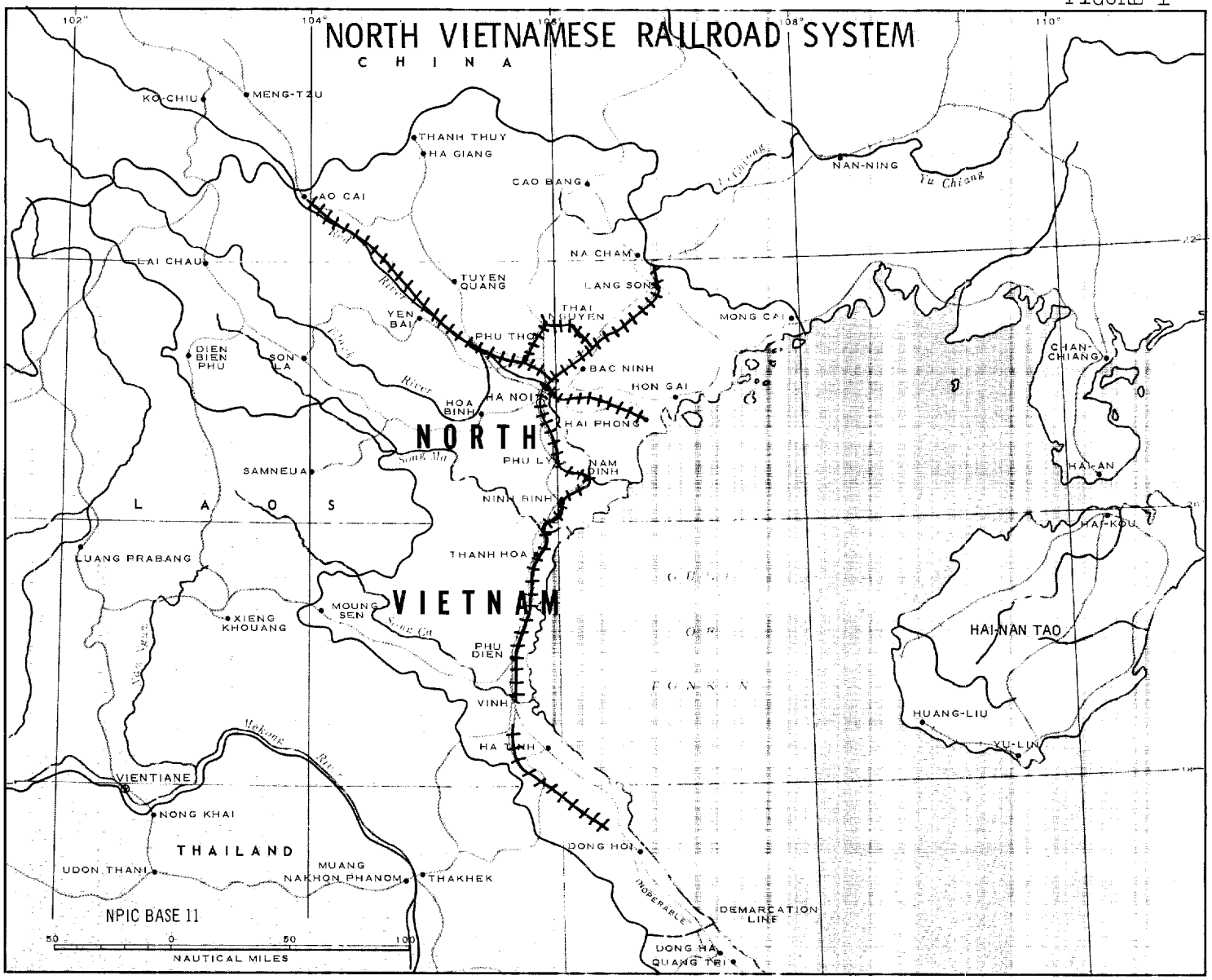
The railroad system has been divided into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure I). Annotated maps and photos are used to show the status of each line.

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
SECRET

25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
25X1
SECRET

PIR 75113
FIGURE 1



SECRET
Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
SECRET
25X1

SUMMARY

That portion of the Hanoi/Dong Dang Rail Line covered by interpretable photography is serviceable to both standard and meter gauge traffic. Two bridge interdictions were noted on the Hanoi/Dong Hoi Rail Line.

CONTENTS

Hanoi/Lao Cai Rail Line	Page 4
Hanoi/Dong Dang Rail Line	6
Hanoi/Dong Hoi Rail Line	9
Hanoi/Haiphong Rail Line	19
Thai Nguyen Rail Line	20

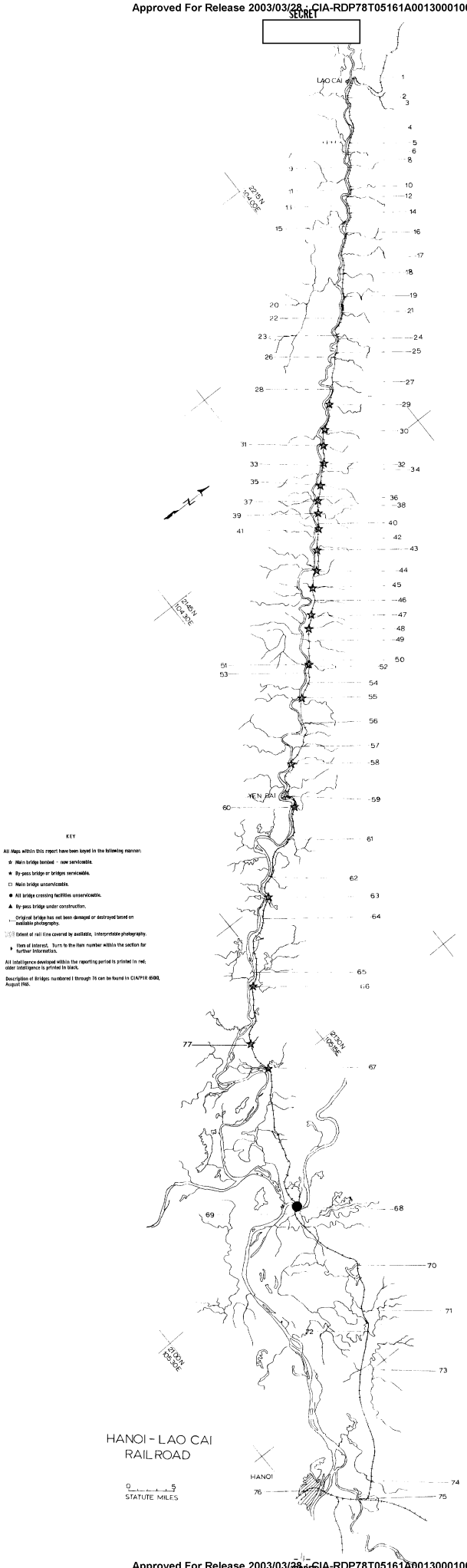
Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
SECRET
25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

SECRET

PIR 75113
FIGURE 2

25X1



Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

SECRET

25X1

[redacted] PIR 75113

DDI IMAGERY ANALYSIS STAFF

STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
HANOI/LAO CAI RAIL LINE

	Bridge Number and Name	Date last observed	Status
30	Lang Thip Railroad Bridge over Ngoi Thip [redacted]	[redacted]	S
32	Lang Kay Railroad Bridge NW over Ngoi Key [redacted]		S
35	Lang Kay Railroad Bridge over Ngoi Chuc [redacted]		S
37	Lang Kay Railroad Bridge S over Nam Linh [redacted]		S
39	Lang Khay Railroad Bridge over Ngoi Kay [redacted]		S
41	Khe Se Railroad Bridge S over stream [redacted]		S
43	Trai Hut Railroad Bridge NW over Ngoi Cho [redacted]		S
44	Trai Hut Railroad Bridge over Nam Lam [redacted]		S
45	Som Dong Dep Railroad Bridge over Nam Muoi [redacted]		S
47	Lang Quach Ngoai Railroad Bridge N over Ngoi Vai [redacted]		S
48	Lang Quach Ngoai Railroad Bridge over Ngoi Quach [redacted]		S
51	Pho Chang Railroad Bridge over Ngoi Trang [redacted]		S
55	Pho Hop Railroad Bridge over Ngoi Hop [redacted]		S
67	Phu Tho Railroad Bridge E over stream [redacted]		S

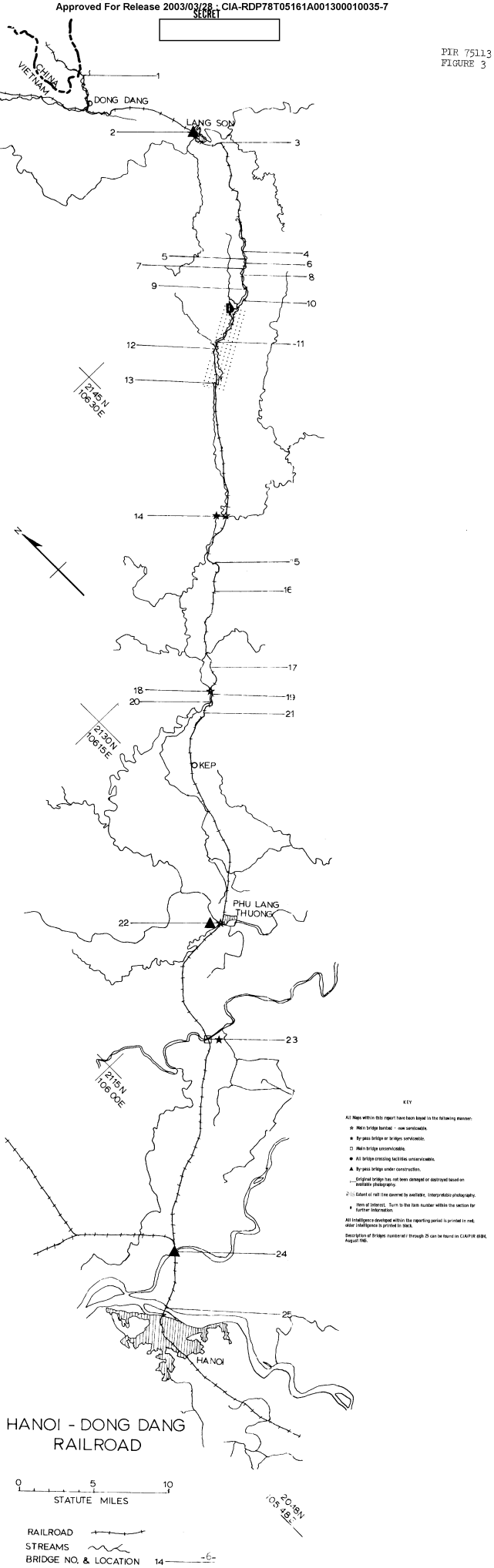
* All data is compiled from photography dated [redacted] or thereafter.
Symbols: S - serviceable, U - unserviceable.

[redacted]

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
SECRET

25X1

PIR 75113
FIGURE 3



HANOI - DONG DANG
RAILROAD

KEY

All Maps within this report have been keyed in the following manner:

- ☆ Main bridge bombed - now serviceable.
- ★ By-pass bridge or bridges serviceable.
- □ Main bridge unserviceable.
- ■ All bridge crossing facilities unserviceable.
- ▲ By-pass bridge under construction.
- ... Original bridge has not been damaged or destroyed based on available photography.
- Extent of rail line covered by available, interpretable photography.
- Item of interest. Turn to the item number within the section for further information.

All intelligence developed within the reporting period is printed in red; older intelligence is printed in black.

Description of Bridges numbered 1 through 25 can be found in CHAPTER EIGHT, August 1968.

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
SECRET

25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

25X1 [redacted]

DDI IMAGERY ANALYSIS STAFF

PIR 75113

STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
HANOI/DONG DANG RAIL LINE

	Bridge Number and Name	Date last observed	Status
14	Cao Nung Railroad Bridge over Song Hoa [redacted]	[redacted]	S
14	Cao Nung Railroad Bridge E over Song Hoa [redacted]		S
22	Bac Giang Railroad and Highway Bridge over Song Thuong [redacted]		S
23	Dap Cau Railroad and Highway Bridge over Song Cau [redacted]		U
23	Dap Cau Railroad Bridge over Song Cau [redacted]		S

25X1

25X1

25X1

25X1

25X1

25X1

* All data is compiled from photography dated [redacted] or thereafter.
Symbols: S - serviceable, U - unserviceable

25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

[redacted]

25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

ITEM OF INTEREST NO. 1: Hanoi/Dong Dang Rail Line

NAME : Dual Gauge Track

BE : NA

COORDINATES : 21 41N - 106 39E, XJ720998

PHOTO REFERENCE : [redacted] 25X1

MAP REFERENCE : JOG (A) 1501, NF 48-12

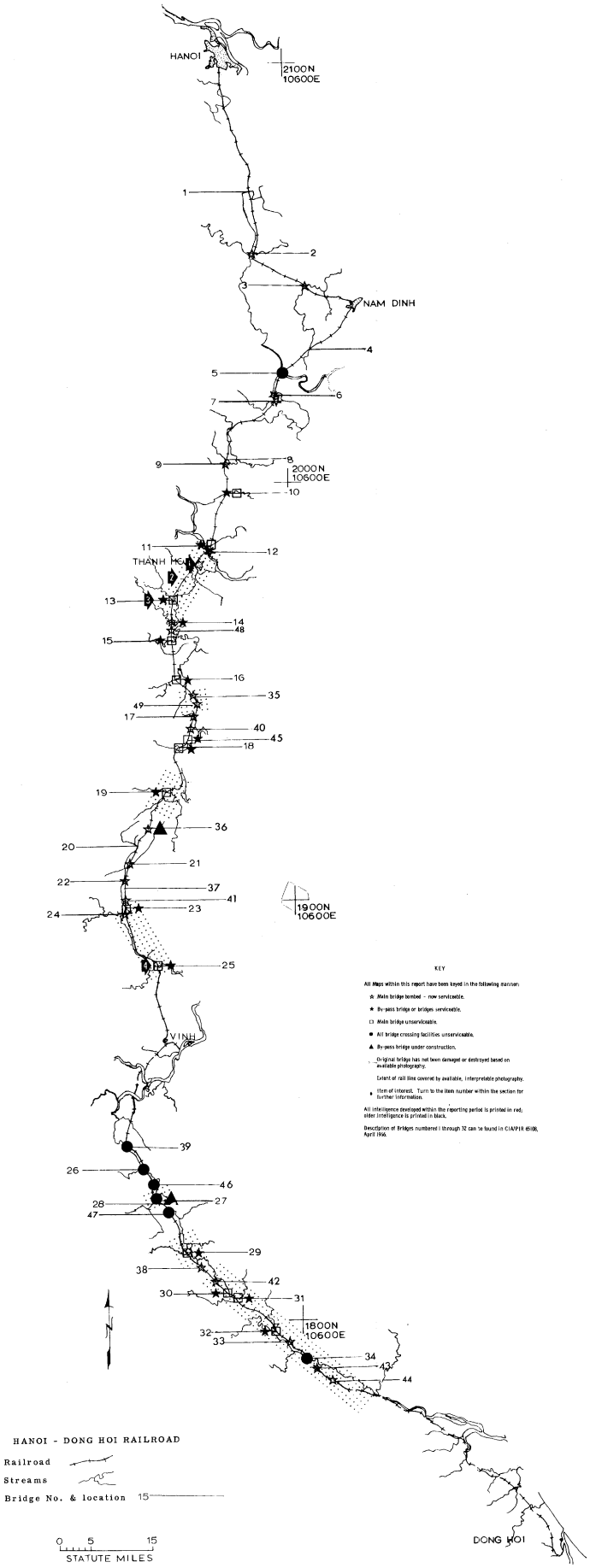
Dual (i.e., standard and meter) gauge track has now been observed as far north as Khon Tiem, North Vietnam; a 10 nm extension of photographically confirmed dual gauge track. Khon Tiem is only 12 nm (approximately) southwest of Lang Son by rail.

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

25X1

PIR 75113
FIGURE 4



Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
HANOI/DONG HOI RAIL LINE

	Bridge Number and Name	Date last observed	Status	
3	Cao Duong Railroad and Highway Bridge over canal [redacted]		S	25X1
5	Ninh Binh Railroad and Highway Bridge over Song Day [redacted]		U	
5	Ninh Binh Railroad Bridge over Song Day [redacted]		U	
5	Ninh Binh Railroad Pontoon Bridge		U	
6	Ha Thon Railroad and Highway Bridge over Song Vac [redacted]		S	
7	Ly Nhan Railroad and Highway Bridge over stream [redacted]		S	
9	Yen Xa Railroad and Highway Bridge over stream [redacted]		S	
10	Dong Phong Thuong Railroad and Highway Bridge over Song Len [redacted]		U	
10	Dong Phong Thuong Railroad Bridge S over Song Len [redacted]		U	
10	Dong Phong Thuong E Railroad By-Pass Bridge [redacted]		S	
11	Phuong Dinh Railroad and Highway Bridge over Lach Truong [redacted]		U	
11	Phuong Dinh Railroad Bridge over Lach Truong [redacted]		S	
12	Thanh Hoa Railroad and Highway Bridge over Song Ma [redacted]		S	
13	Thien Linh Dong Railroad Bridge over Hoang Giang [redacted]		U	

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

	Bridge Number and Name	Date last observed	Status
13	Thien Linh Dong Railroad Bridge SW over River		U
13	Thien Linh Dong Railroad Bridge W over Hoang Giang		S
14	Thinh Lac Railroad Bridge over stream		U
14	Thinh Lac Railroad Bridge SSW over stream		S
15	Truong Quang Tien Railroad Bridge over Song Yen Tr		S
15	Truong Quang Tien Railroad Bridge E over River		U
16	Thi Long Railroad Bridge over Suoi Cay Gang		U
16	Thi Long Railroad Bridge SW over Suoi Cay Gang		S
17	Phu Quat Railroad Bridge over stream		S
18	Dia Thuy Railroad Bridge SW over Khe Dua		U
18	Dia Thuy Railroad Bridge NW over Khe Dua		S
19	Qui Vinh Railroad Bridge No. 1 over Song Hoang Mai		U
19	Qui Vinh Railroad Bridge No. 2 over Song Hoang Mai		S
19	Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai		U
19	Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai		S
21	Long Ngoc Railroad and Highway Bridge over unknown barrier		S

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

	Bridge Number and Name	Date last observed	Status
22	Dong Khe Railroad Bridge over stream		S
23	Dien Chau Railroad Bridge over Song Bang		U
23	Dien Chau Railroad Bridge E over Song Bang		S
24	Da Phuc Railroad Bridge over Intermittent Waterway		S
25	Tam Da Railroad and Highway Bridge over Song Cua Lo		U
25	Tam Da Railroad By-Pass Bridge		S
26	Trai Hoi Railroad and Highway Bridge over Ngan Sau		U
27	Xom Hoai Railroad and Highway Bridge over Rao No		U
29	Dong Bai Railroad Bridge over Song Tien		U
29	Dong Bai Railroad By-Pass Bridge N over Song Tien		S
30	La Khe Thon Railroad Bridge over Song Tien		U
30	La Khe Thon Highway Bridge over Song Tien		S
31	Bai Duc Thon Railroad Bridge over Khe Ba Giang		U
31	Bai Duc Thon Railroad Bridge S over Khe Ba Giang		S
32	Xom Khe Railroad Bridge over Khe Net		U
32	Xom Khe Railroad Bridge By-Pass over Khe Net		S

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

	Bridge Number and Name	Date last observed	Status
33	Kim Lu Xa Railroad Bridge over Khe Danh		S
35	Thi Long Railroad Bridge SE over stream		S
35	Thi Long Railroad Bridge S By-Pass		S
36	Tho Trang Railroad Bridge over stream		S
39	Quang Te Railroad Bridge over Khe Hac Giang		U
40	Qui My Railroad Bridge over stream		S
41	Tu My Railroad Bridge		S
42	Trai Tran Xom Railroad Bridge		S
43	Dong Ca Thon Railroad and Highway Bridge over Cai Khe		S
44	Kieu Moc Phuong Railroad Bridge W		S
45	Phu Cu Railroad Bridge N over stream		U
45	Phu Cu Railroad By-Pass Bridge		S
48	Sai Thon Railroad Bridge N over stream		S
49	Nap Bang Railroad Bridge over stream		S

* All data is compiled from photography dated [redacted] or thereafter.
Symbols: S -serviceable, U -unserviceable.

[redacted] 25X1

PIR 75113

DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME : Thanh Hoa Railroad Station, Yard, and Siding

25X1 BE : [redacted]

COORDINATES : 19 48N - 105 46E, WG807906

PHOTO REFERENCE : [redacted] 25X1

MAP REFERENCE : JOG (A) 1501, NE 48-3

The Thanh Hoa Railroad Yard has been partially repaired and is probably being used for a limited amount of transloading. Five tracks in the northern end of the main yard are now serviceable and are surrounded by stacked supplies. One of these tracks is serviceable throughout the entire length of the yards. In addition, a third track has been added to the area of previously reported double tracking (Report No. 35) on the new by-pass track. These tracks continue to be active as a transloading area; approximately 58 small 2-axle flat cars are located in this area. In addition, 1 conventional steam locomotive and 26 pieces of conventional rolling stock (not illustrated) are located on the main track just north of the yards near the junction with the new by-pass track. Numerous small piles of coal are located on both sides of this segment of track. The coal is probably used to refuel the locomotives, as this is the southernmost limit that conventional steam locomotives have been observed since the Thanh Hoa Yards has been used as a transshipment area.

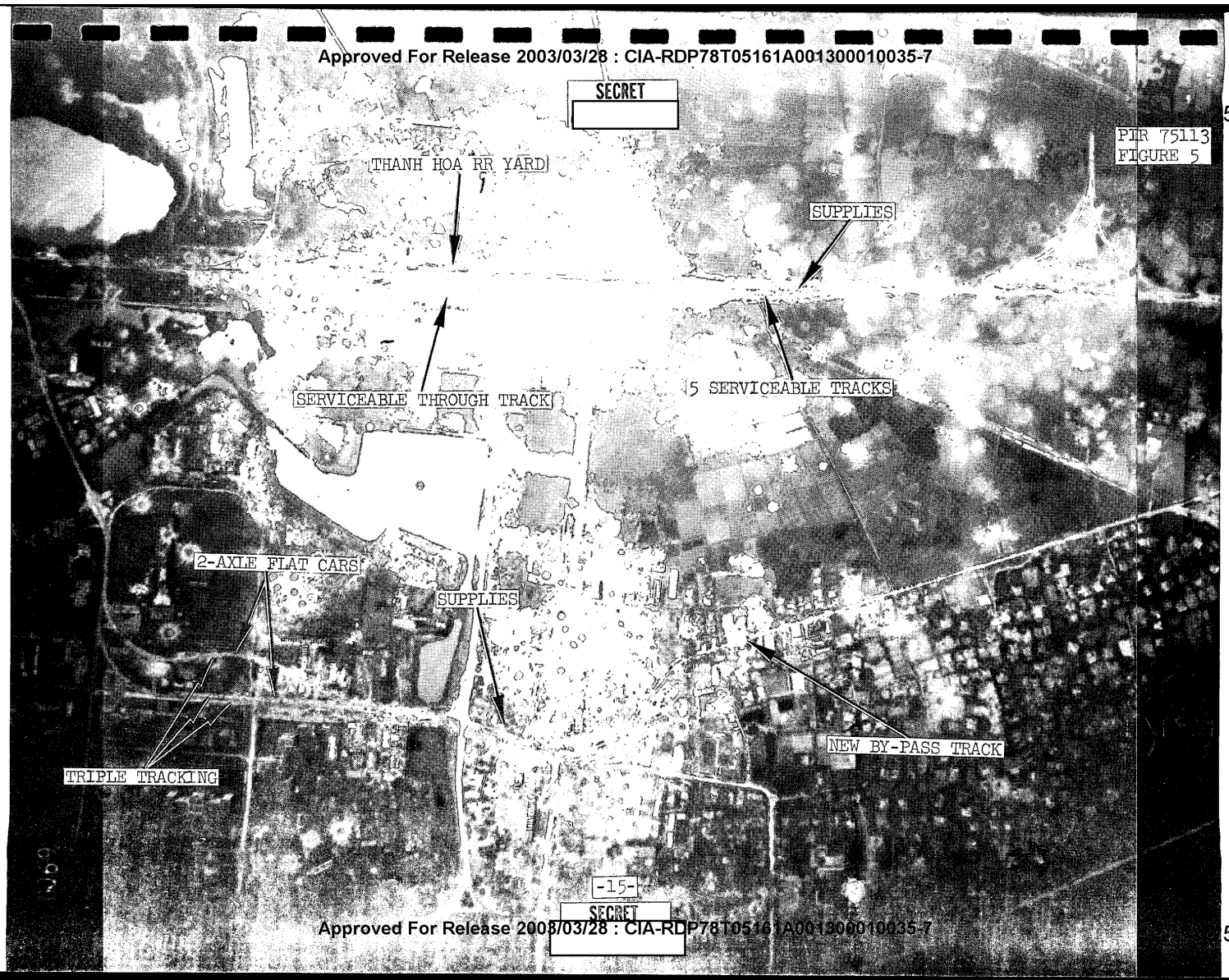
[redacted] 25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

SECRET

5X1

PIR 75113
FIGURE 5



SECRET

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

5X1

ITEM OF INTEREST NO. 2: Hanoi/Dong Hoi Rail Line

NAME : Repair/Construction Facilities

BE : NA

COORDINATES : 19 47N - 105 44E, WG782887

PHOTO REFERENCE : [redacted] 25X1

MAP REFERENCE : JOG (A) 1501, NE 48-3

A newly identified probable repair/construction facility is located approximately 1.6 nm SW of the Thanh Hoa Railroad Station, Yard, and Siding [redacted] on a spur track. 25X1 The facility consists of a 30' x 110' main building, two 20' x 45' support buildings, and 4 dead-end spurs (including 2 terminating in the large building). The facility is apparently designed for the repair and/or construction of small 2-axle rolling stock only. At least 22 small 2-axle flat cars (partially illustrated) and one 2-axle tank car were observed on the spur tracks in the vicinity of the facility, and the chassis of a small flat car was observed adjacent to the large structure. Two probable bogies were located on the track adjacent to this same building. No equipment could be seen within any of the buildings.

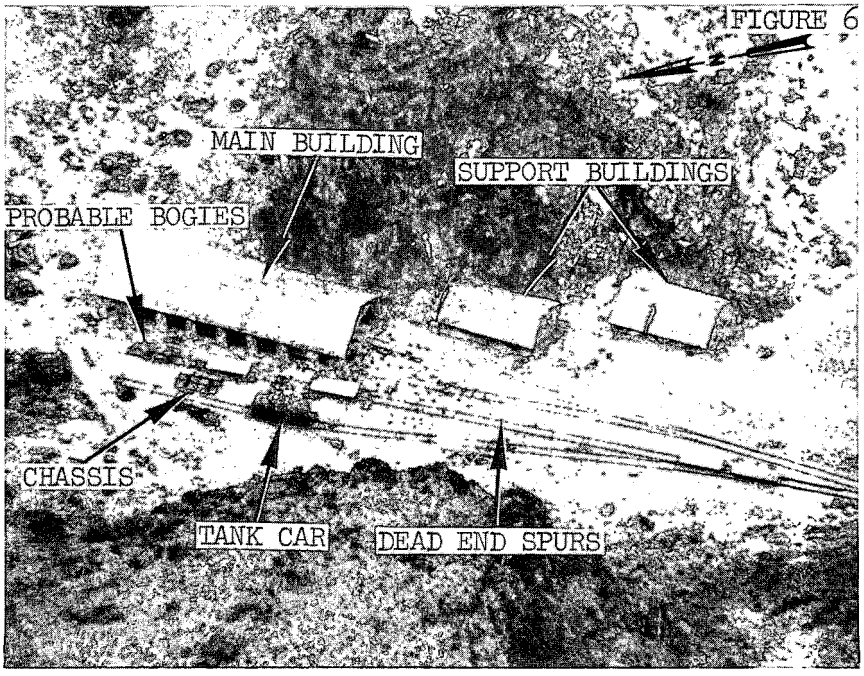


FIGURE 6

ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line

NAME : Thien Linh Dong Railroad Bridge SW

25X1 BE : [redacted]

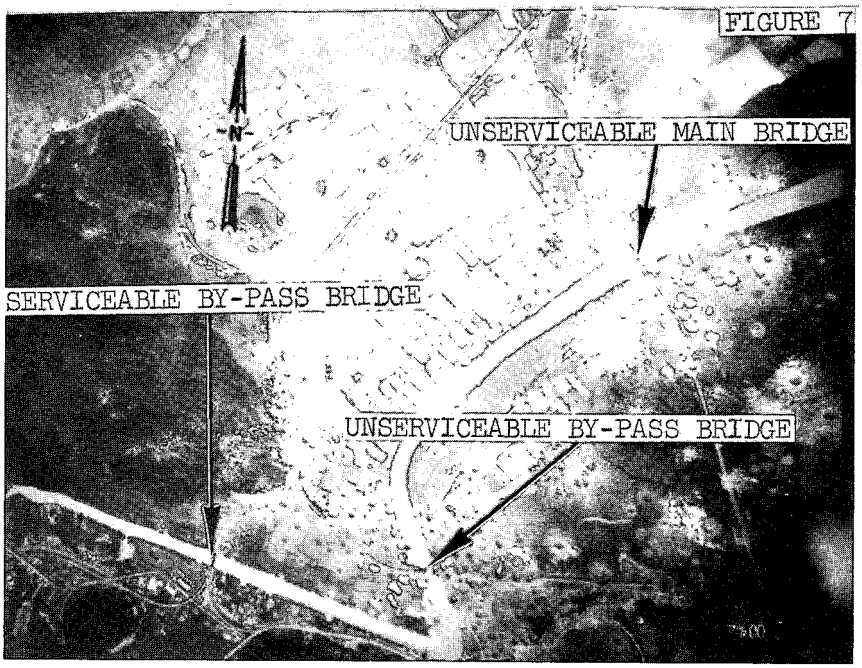
COORDINATES : 19 43N - 105 42E, XG748815

PHOTO REFERENCE : [redacted] 25X1

MAP REFERENCE : JOG (A) 1501, NE 48-3

Three spans of the 4-span deck-beam Thien Linh Dong Railroad (By-Pass) Bridge SW have been dropped and the remaining span has been severely damaged. 25X1 The main bridge [redacted] remains unserviceable.

25X1 A 3-span deck-beam by-pass bridge [redacted] previously reported under construction in Report No. 33, has now been completed and is serviceable to through traffic.



Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

[redacted] 25X1

DDI IMAGERY ANALYSIS STAFF

PIR 75113

ITEM OF INTEREST NO. 4: Hanoi/Dong Hoi Rail Line

NAME : Tam Da Railroad By-Pass Bridge

BE : NA

COORDINATES : 18 50N - 105 39E, WF691839

PHOTO REFERENCE : [redacted] 25X1

MAP REFERENCE : JOG (A) 1501, NE 48-7

The multi-span deck-beam Tam Da Railroad By-Pass Bridge has been repaired and is serviceable. The main bridge [redacted] is still unserviceable. 25X1

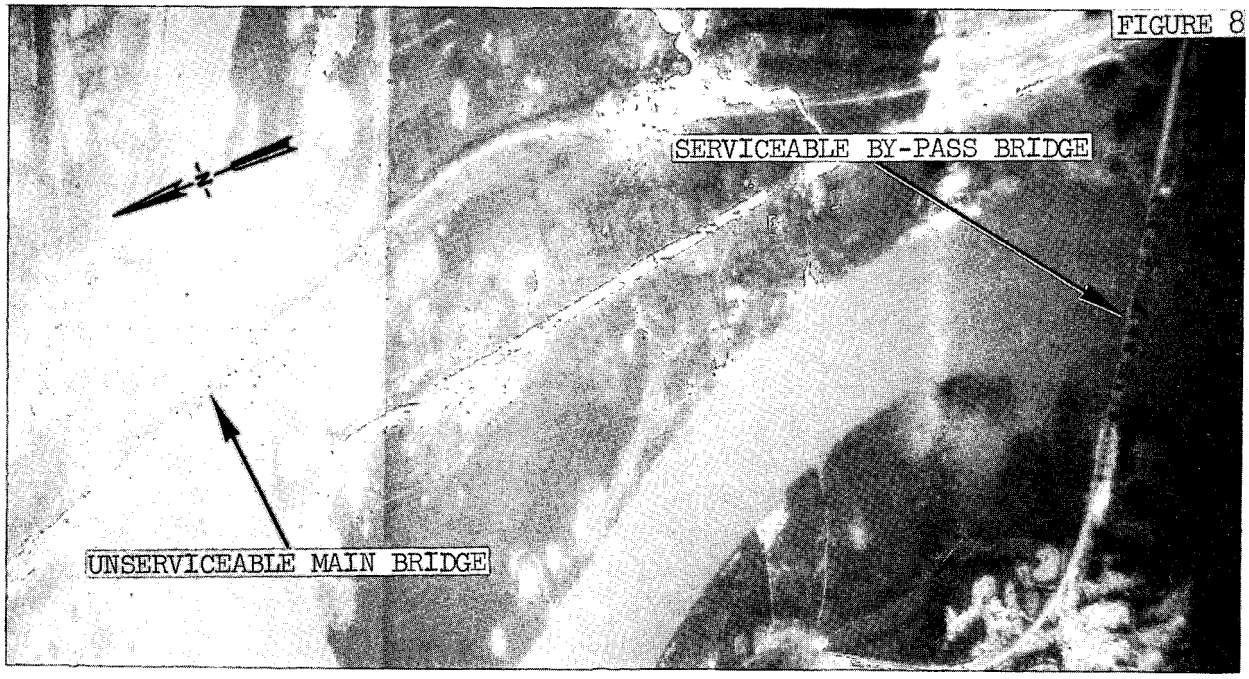


FIGURE 8

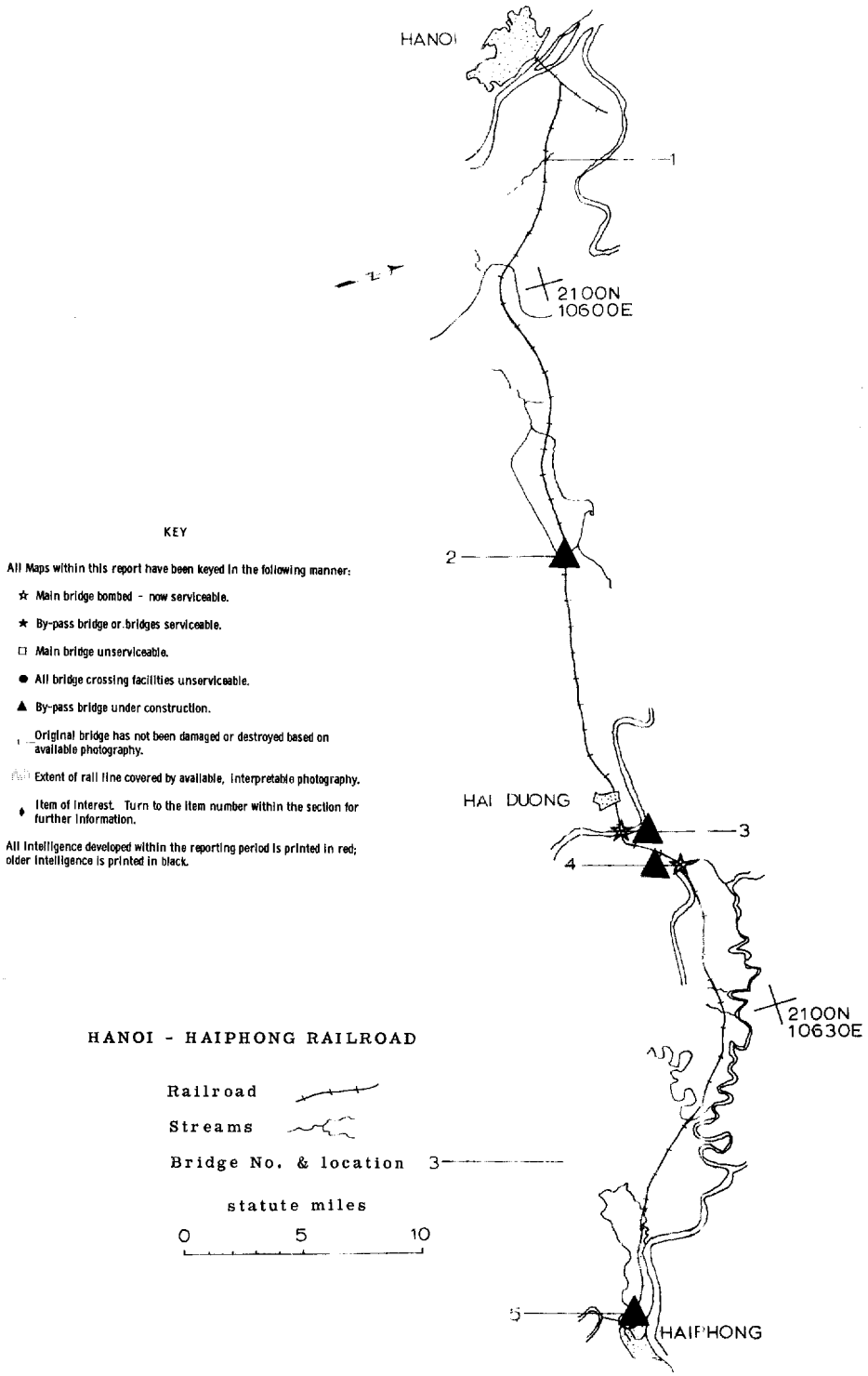
Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

[redacted] 25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7
SECRET

25X1

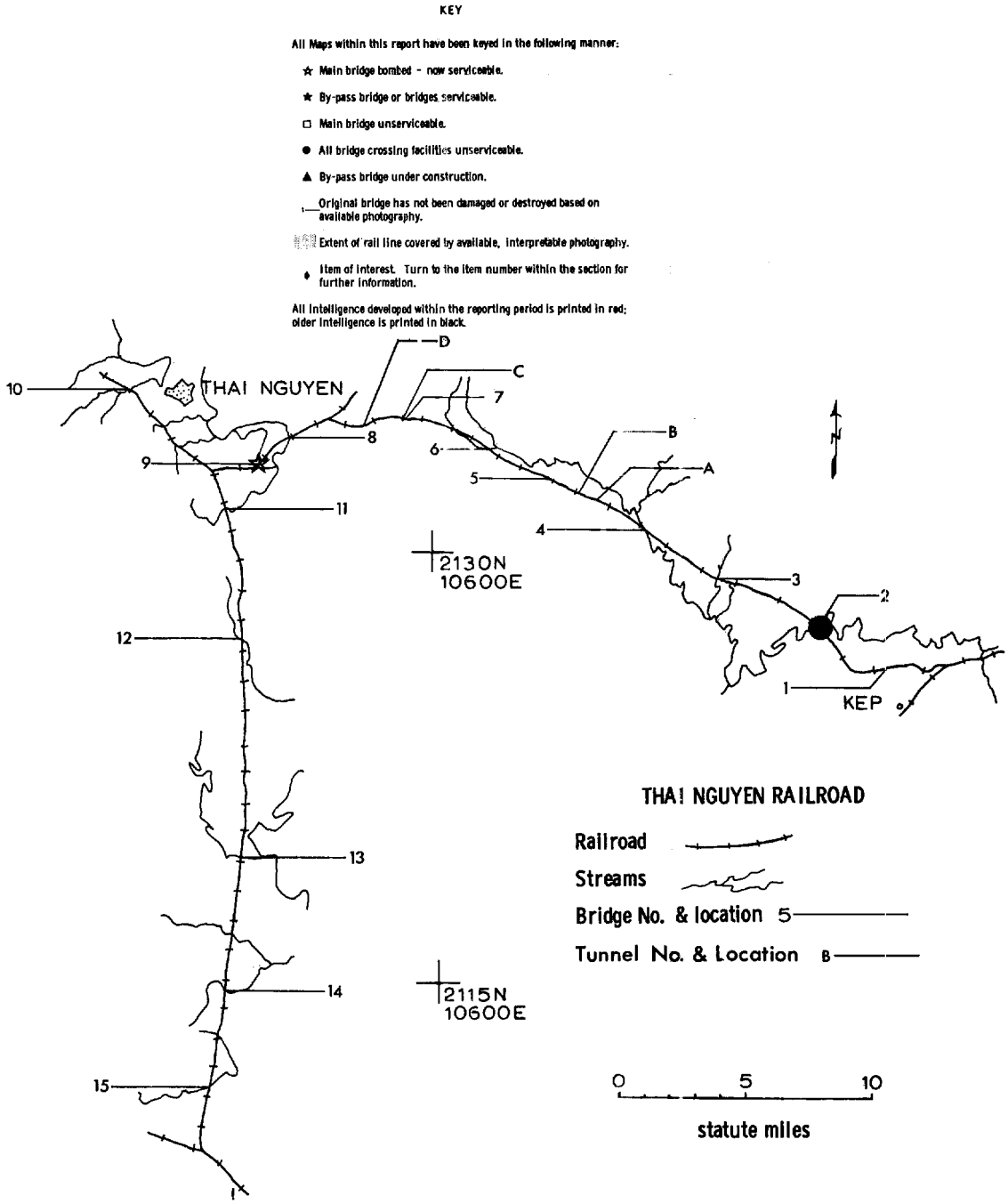
PIR 75113
FIGURE 9



SECRET
Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

25X1

PIR 75113 25X1
FIGURE 10



25X1

DDI IMAGERY ANALYSIS STAFF

PIR 75113

STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
THAI NGUYEN RAIL LINE

	Bridge Number and Name	Date last observed	Status
2	Dong Muc Railroad Bridge over Song Thuong (		U
9	Lang Lau Railroad Bridge over Song Cau (		S

25X1

25X1

25X1

25X1

* All data is compiled from photography dated or thereafter.
Symbols: S - serviceable, U - unserviceable

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

SECRET

25X1

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010035-7

SECRET

25X1